

IN THE CLAIMS

Please amend the claims as shown:

Claim 1. (Original) A voltage controlled oscillator for controlling the oscillation frequency of an output signal depending on an input voltage, being characterized to receive a modulated voltage and output an FM signal having a band including a fundamental oscillation frequency and plural higher-order harmonic components of said fundamental oscillation frequency.

Claim 2. (Original) A voltage controlled oscillator in accordance with claim 1, wherein a frequency band including only the predetermined higher-order harmonic component is filtered at the output stage.

Claim 3. (Amended) An FM signal optical transmitter comprising a signal processor for outputting an FM signal having a band including a fundamental oscillation frequency and plural higher-order harmonic components of said fundamental oscillation frequency, a band-pass filter for taking out only ~~the a~~ predetermined-order harmonic signal component from said FM signal output from said signal processor, a frequency converter for shifting the taken-out harmonic signal component to the lower frequency side or the higher frequency side, and an electric/optic converter for converting ~~the an~~ output signal of said frequency converter into an optical signal.

Claim 4. (Canceled)

Claim 5. (Amended) An FM signal optical transmitter in accordance with claim 3-~~or~~4, wherein said signal processor for outputting said FM signal is a voltage controlled

~~oscillator in accordance with claim 1 or 2~~, and said modulated voltage is formed of plural subcarrier-multiplexed signals wherein said voltage controlled oscillator controls the oscillation frequency of an output signal depending on an input voltage, said oscillator receiving a modulated voltage and outputting an FM signal having a band including a fundamental oscillation frequency and plural higher-order harmonic components of said fundamental oscillation frequency.

Claim 6. (Amended) An FM signal optical transmitter in accordance with claim 3, wherein a predetermined harmonic carrier wave component is extracted from some harmonic components at the output of said signal processor, and the extracted harmonic carrier wave component is used as a reference frequency source required when frequency conversion is carried out by said frequency converter.

Claim 7. (Canceled)

Claim 8 (Amended) An FM signal optical receiver comprising an optic/electric converter that receives an optical signal transmitted from said FM signal optical transmitter in accordance with one of claims ~~3 to 7~~ 3, 5 or 6, and converts said optical signal into an electric signal, and an FM demodulator for demodulating an FM signal converted into said electric signal.

Claim 9 (Amended) An FM signal optical transmission system comprising said FM signal optical transmitter in accordance with one of claims ~~3 to 7~~ 3, 5 or 6, an optic/electric converter that receives an optical signal transmitted from said FM signal optical transmitter and converts said optical signal into an electric signal, and an FM demodulator for demodulating an FM signal converted into said electric signal.

Claim 10 (New) An FM signal optical transmitter in accordance with claim 3, wherein said signal processor for outputting said FM signal is a voltage controlled oscillator, and said modulated voltage is formed of plural subcarrier-multiplexed signals,

wherein said voltage controlled oscillator controls the oscillation frequency of an output signal depending on an input voltage, said oscillator receiving a modulated voltage and outputting an FM signal having a band including a fundamental oscillation frequency and plural higher-order harmonic components of said fundamental oscillation frequency, and wherein a frequency band including only the predetermined higher-order harmonic component is filtered at the output stage.